

WEST Search History

DATE: Tuesday, January 20, 2004

| <u>Hide?</u> | <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> |
|--------------------------|---|--|------------------|
| | <i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i> | | |
| <input type="checkbox"/> | L29 | l25 not L28 | 24 |
| <input type="checkbox"/> | L28 | l25 and (mass adj spectromet\$3) | 1 |
| <input type="checkbox"/> | L27 | l25 and (acid-labile) | 0 |
| <input type="checkbox"/> | L26 | L25 and isotop\$6 | 1 |
| <input type="checkbox"/> | L25 | L24 and l15 | 25 |
| <input type="checkbox"/> | L24 | L23 and cysteine | 180 |
| <input type="checkbox"/> | L23 | l13 and (thiol\$1 or sulfhydryl) | 1432 |
| <input type="checkbox"/> | L22 | l20 and (mass adj spectromet\$3) | 1 |
| <input type="checkbox"/> | L21 | L20 and isotop\$6 | 1 |
| <input type="checkbox"/> | L20 | l13 and acid-labile | 33 |
| <input type="checkbox"/> | L19 | L18 not l4 | 3 |
| <input type="checkbox"/> | L18 | l13 and (isotope-coded) | 3 |
| <input type="checkbox"/> | L17 | L16 not l4 | 2 |
| <input type="checkbox"/> | L16 | L15 and l14 | 2 |
| <input type="checkbox"/> | L15 | polymer\$1 or polystyrene or (polyethylene adj glycol) | 1137492 |
| <input type="checkbox"/> | L14 | L13 and alice | 29 |
| <input type="checkbox"/> | L13 | protein\$1 or peptide\$1 | 188288 |
| <input type="checkbox"/> | L12 | L11 not l4 | 0 |
| <input type="checkbox"/> | L11 | L10 and (mass adj spectromet\$3) | 2 |
| <input type="checkbox"/> | L10 | L9 and protein\$1 | 10 |
| <input type="checkbox"/> | L9 | hewick-r-\$.in. | 12 |
| <input type="checkbox"/> | L8 | L7 not l4 | 0 |
| <input type="checkbox"/> | L7 | L6 and (mass adj spectromet\$3) | 2 |
| <input type="checkbox"/> | L6 | L5 and protein\$1 | 29 |
| <input type="checkbox"/> | L5 | wang-j-\$.in. | 631 |
| <input type="checkbox"/> | L4 | L3 and (mass adj spectromet\$3) | 2 |
| <input type="checkbox"/> | L3 | L2 and protein\$1 | 59 |
| <input type="checkbox"/> | L2 | qiu-\$.in. | 1772 |
| <input type="checkbox"/> | L1 | qiu-y-\$.in. | 0 |

END OF SEARCH HISTORY

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|---|--------------------|---------------------|
| 1 | 2 | qiu-yongchang-.in. | USPAT; US-PGPUB | 2004/01/20 11:51 |
| 2 | 3 | wang-jack-h-.in. | USPAT; US-PGPUB | 2004/01/20 11:51 |
| 3 | 0 | qiu-yongchang-.in. not wang-jack-h-.in. | USPAT; US-PGPUB | 2004/01/20 11:51 |
| 4 | 1 | wang-jack-h-.in. not qiu-yongchang-.in. | USPAT; US-PGPUB | 2004/01/20 11:51 |
| 5 | 11 | hewick-rodney-m-.in. | USPAT; US-PGPUB | 2004/01/20 11:51 |
| 6 | 8 | hewick-rodney-m-.in. not wang-jack-h-.in. | USPAT; US-PGPUB | 2004/01/20 11:55 |
| 7 | 209586 | protein\$1 or peptide\$1 | USPAT; US-PGPUB | 2004/01/20 11:55 |
| 8 | 604632 | polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG | USPAT; US-PGPUB | 2004/01/20 11:55 |
| 9 | 7 | (protein\$1 or peptide\$1) same alice | USPAT; US-PGPUB | 2004/01/20 11:57 |
| 10 | 32 | (protein\$1 or peptide\$1) same (isotope-coded) | USPAT; US-PGPUB | 2004/01/20 11:57 |
| 11 | 1 | ((protein\$1 or peptide\$1) same (isotope-coded)) same (acid-labile) | USPAT; US-PGPUB | 2004/01/20 11:58 |
| 12 | 1 | ((protein\$1 or peptide\$1) same (isotope-coded)) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG) | USPAT; US-PGPUB | 2004/01/20 11:58 |
| 13 | 0 | ((protein\$1 or peptide\$1) same (isotope-coded)) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG)) not ((protein\$1 or peptide\$1) same (isotope-coded)) same (acid-labile)) | USPAT; US-PGPUB | 2004/01/20 11:58 |
| 14 | 13699 | (protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl) | USPAT; US-PGPUB | 2004/01/20 11:58 |
| 15 | 3667 | ((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine | USPAT; US-PGPUB | 2004/01/20 12:00 |
| 16 | 379 | ((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG) | USPAT; US-PGPUB | 2004/01/20 12:00 |
| 17 | 1 | ((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG)) same isotop\$6 | USPAT; US-PGPUB | 2004/01/20 12:01 |
| 18 | 40 | ((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG)) same linker\$1 | USPAT; US-PGPUB | 2004/01/20 12:16 |
| 19 | 49 | ((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG)) same (maleimide or haloacetyl or maleimidyl) | USPAT; US-PGPUB | 2004/01/20 12:17 |
| 20 | 41 | ((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG)) same (maleimide or haloacetyl or maleimidyl)) not (((protein\$1 or peptide\$1) same (thiol\$1 or sulfhydryl)) same cysteine) same (polymer\$1 or polystyrene or (polyethylene adj glycol) or PEG)) same linker\$1) | USPAT; US-PGPUB | 2004/01/20 12:48 |
| 21 | 1 | 4847325.pn. | USPAT; US-PGPUB | 2004/01/20 12:49 |
| 22 | 1 | 4847325.pn. and (maleimido or haloacetyl) | USPAT; US-PGPUB | 2004/01/20 12:49 |

d his

(FILE 'HOME' ENTERED AT 10:03:06 ON 20 JAN 2004)

FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 10:03:21 ON 20 JAN 2004

E QIU YONGCHANG/AU
L1 21 S E3
L2 14 DUP REMOV L1 (7 DUPLICATES REMOVED)
E WANG JACK H/AU
L3 297 S E2-E4
L4 34 S L3 AND PROTEIN?
L5 13 S L4 AND MASS SPECTRO?
L6 7 DUP REMOV L5 (6 DUPLICATES REMOVED)
L7 2 S L6 NOT L2
E HEWICK RODNEY M/AU
L8 61 S E1-E3
L9 53 S L8 AND PROTEIN?
L10 10 S L9 AND MASS SPECTRO?
L11 5 DUP REMOV L10 (5 DUPLICATES REMOVED)
L12 0 S L11 NOT L2
L13 5672681 S PROTEIN? OR PEPTIDE?
L14 35 S L13 AND ALICE
L15 9 S L14 AND POLYMER?
L16 6 DUP REMOV L15 (3 DUPLICATES REMOVED)
L17 191 S L13 AND ISOTOPE-CODED
L18 3 S L17 AND ACID-LABILE
L19 2 DUP REMOV L18 (1 DUPLICATE REMOVED)
L20 9 S L17 AND POLYMER?
L21 6 DUP REMOV L20 (3 DUPLICATES REMOVED)
L22 63298 S L13 AND (THIOL? OR SULFHYDRYL)
L23 15944 S L22 AND CYSTEINE
L24 686 S L23 AND POLYMER?
L25 7 S L24 AND ISOTOP?
L26 6 DUP REMOV L25 (1 DUPLICATE REMOVED)
L27 105 S L23 AND (POLYSTYRENE OR POLYETHYLENE GLYCOL)
L28 1 S L27 AND ISOTOP?
L29 3058 S L13 AND ACID-LABILE
L30 29 S L29 AND ISOTOP?
L31 4 S L30 AND MASS SPECTRO?
L32 3 DUP REMOV L31 (1 DUPLICATE REMOVED)

d his

(FILE 'HOME' ENTERED AT 11:04:55 ON 20 JAN 2004)

FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 11:05:14 ON 20 JAN 2004

L1 5672681 S PROTEIN? OR PEPTIDE?
L2 63298 S L1 AND (THIOL? OR SULFHYDRYL)
L3 15944 S L2 AND CYSTEINE
L4 752 S L3 AND (POLYMER? OR POLYSTYRENE OR POLYETHYLENE GLYCOL)
L5 34 S L4 AND (HALOACETYL OR MALEIMIDE)
L6 26 DUP REMOV L5 (8 DUPLICATES REMOVED)

=>

L35 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AN 1998:520507 CAPLUS
DN 129:280873

TI A **Polyethylene Glycol** Copolymer for Carrying and
Releasing Multiple Copies of **Cysteine**-Containing
Peptides

AU Huang, Shaei-Yun; Pooyan, Shahriar; Wang, Jihong; Choudhury, Indrani;
Leibowitz, Michael J.; Stein, Stanley
CS Center for Advanced Biotechnology and Medicine and Chemistry Department,
Rutgers University, New Brunswick, NJ, 08903-2101, USA
SO Bioconjugate Chemistry (1998), 9(5), 612-617
CODEN: BCCHES; ISSN: 1043-1802
PB American Chemical Society
DT Journal
LA English

AB Two different methods were developed to prep. an adduct of a poly(ethylene glycol)-lysine copolymer with either cysteamine or 1-amino-2-methyl-2-propanethiol. **Cysteine**-contg. **peptides** could then be disulfide-linked to the **thiol** groups on the **polymer** in a facile manner. In the described procedures, a coupling ratio of about 8 **peptides**/mol. of poly(ethylene glycol)-lysine copolymer (Mw = 27 000) was typically attained. The products were stable at neutral pH, but the **peptides** could be released from the **polymer** in a physiol. relevant reducing environment. The release rate was highly dependent on the **linker** used for forming the disulfide bond. To illustrate the potential biomedical usefulness of this **polymer** carrier, a Tat **peptide**-PEG conjugate was shown to inhibit expression of a reporter gene fused to the TAR element of human immunodeficiency virus in a model cell assay.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT